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|  |  | (81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). |  |
|  |  | <b>Published</b><br><i>With international search report.<br/>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>  |  |
| (54) Title: PHARMACEUTICAL COMPOSITION FOR MODIFIED RELEASE OF AN INSULIN SENSITISER AND ANOTHER ANTIDIABETIC AGENT  |  |  |  |
| (57) Abstract<br><br>A pharmaceutical composition, which composition comprises: an insulin sensitiser and another antidiabetic agent and a pharmaceutically acceptable carrier therefor, wherein the composition is arranged to provide a modified release of at least one of the insulin sensitiser and the other antidiabetic agent, and the use of such composition in medicine.  |  |  |  |

# INTERNATIONAL SEARCH REPORT

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|--|---|---|
| I. National Application No<br><b>PCT/EP 99/08704</b>   |   |   |
| <b>A. CLASSIFICATION OF SUBJECT MATTER</b><br>IPC 7    A61K31/353    A61K31/4439    A61K9/32    A61K9/52    A61K45/06<br>A61P3/10  |   |   |
| According to International Patent Classification (IPC) or to both national classification and IPC  |   |   |
| <b>B. FIELDS SEARCHED</b><br>Minimum documentation searched (classification system followed by classification symbols)<br>IPC 7    A61K  |   |   |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  |   |   |
| Electronic data base consulted during the international search (name of data base and, where practical, search terms used)   |   |   |
| <b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>  |   |   |
| Category *   | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.   |
| X  | EP 0 861 666 A (TAKEDA CHEMICAL INDUSTRIES LTD) 2 September 1998 (1998-09-02)<br><br>page 10, line 3 - line 31<br>page 11 -page 12; examples 1,2<br>page 8, line 39 - line 57<br>page 9, line 39 - line 55<br>claims 12,13,15,24,26<br>---                  | 1-6,<br>8-11,<br>15-18  |
| X  | WO 98 11884 A (KNOLL AG ;BAILEY CLIFFORD JAMES (GB); JACKSON HELEN CHRISTINE (GB)) 26 March 1998 (1998-03-26)<br>page 4, line 20 -page 5, line 3<br>page 12, line 29 -page 13, line 7<br>claims 21-25<br>---<br><div style="text-align: center;">-/--</div> | 1-6,<br>8-11,15,<br>17,18   |
| <div style="display: flex; justify-content: space-between;"> <span><input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.</span> <span><input checked="" type="checkbox"/> Patent family members are listed in annex.</span> </div>  |   |   |
| * Special categories of cited documents :<br><br><div style="display: flex;"> <div style="flex: 1;">           "A" document defining the general state of the art which is not considered to be of particular relevance<br/>           "E" earlier document but published on or after the international filing date<br/>           "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)<br/>           "O" document referring to an oral disclosure, use, exhibition or other means<br/>           "P" document published prior to the international filing date but later than the priority date claimed         </div> <div style="flex: 1;">           "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention<br/>           "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone<br/>           "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.<br/>           "&amp;" document member of the same patent family         </div> </div> |   |   |
| Date of the actual completion of the international search<br><br><div style="text-align: center;">3 April 2000</div>   |   | Date of mailing of the international search report<br><br><div style="text-align: center;">07/04/2000</div> |
| Name and mailing address of the ISA<br>European Patent Office, P.B. 5818 Patentlaan 2<br>NL - 2280 HV Rijswijk<br>Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,<br>Fax: (+31-70) 340-3016   |   | Authorized officer<br><br><div style="text-align: center;">Muller, S</div>                                  |

# INTERNATIONAL SEARCH REPORT

I. International Application No  
PCT/EP 99/08704

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|----------|---|-----------------------|
| X        | WO 98 42340 A (CIRD GALDERMA ;FANJOL<br>ANDREA (US); PFAHL MAGNUS (US); LERNHARDT<br>WA) 1 October 1998 (1998-10-01)<br>abstract<br>claims 1-15<br>-----  | 1-6, 10,<br>15        |
| X        | US 5 502 078 A (HOLLOWAY BRIAN R ET AL)<br>26 March 1996 (1996-03-26)   | 1-6, 10,<br>11        |
| Y        | column 3, line 32 - line 53<br>-----  | 13, 14                |
| Y        | DE 44 32 757 A (BOEHRINGER MANNHEIM GMBH)<br>21 March 1996 (1996-03-21)<br>page 3, line 41 -page 4, line 31<br>page 7 -page 8; example 4<br>-----   | 13, 14                |
| P, X     | WO 99 03477 A (BUCKINGHAM ROBIN EDWIN<br>;SMITH STEPHEN ALISTAIR (GB); SMITHKLINE<br>BE) 28 January 1999 (1999-01-28)<br>page 2, line 19 -page 3, line 2<br>page 6, line 13 -page 7, line 18<br>page 10<br>claims 1-22<br>----- | 1-6, 15,<br>17-19     |

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP 99/ 08704

### Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 99/08704

| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
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